

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062123\
 Data File : VD076515.D
 Acq On : 21 Jun 2023 16:21
 Operator : KP/SY
 Sample : 03331-07
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRIP-BLANK

Quant Time: Jun 22 02:00:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061623S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 19 04:51:45 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

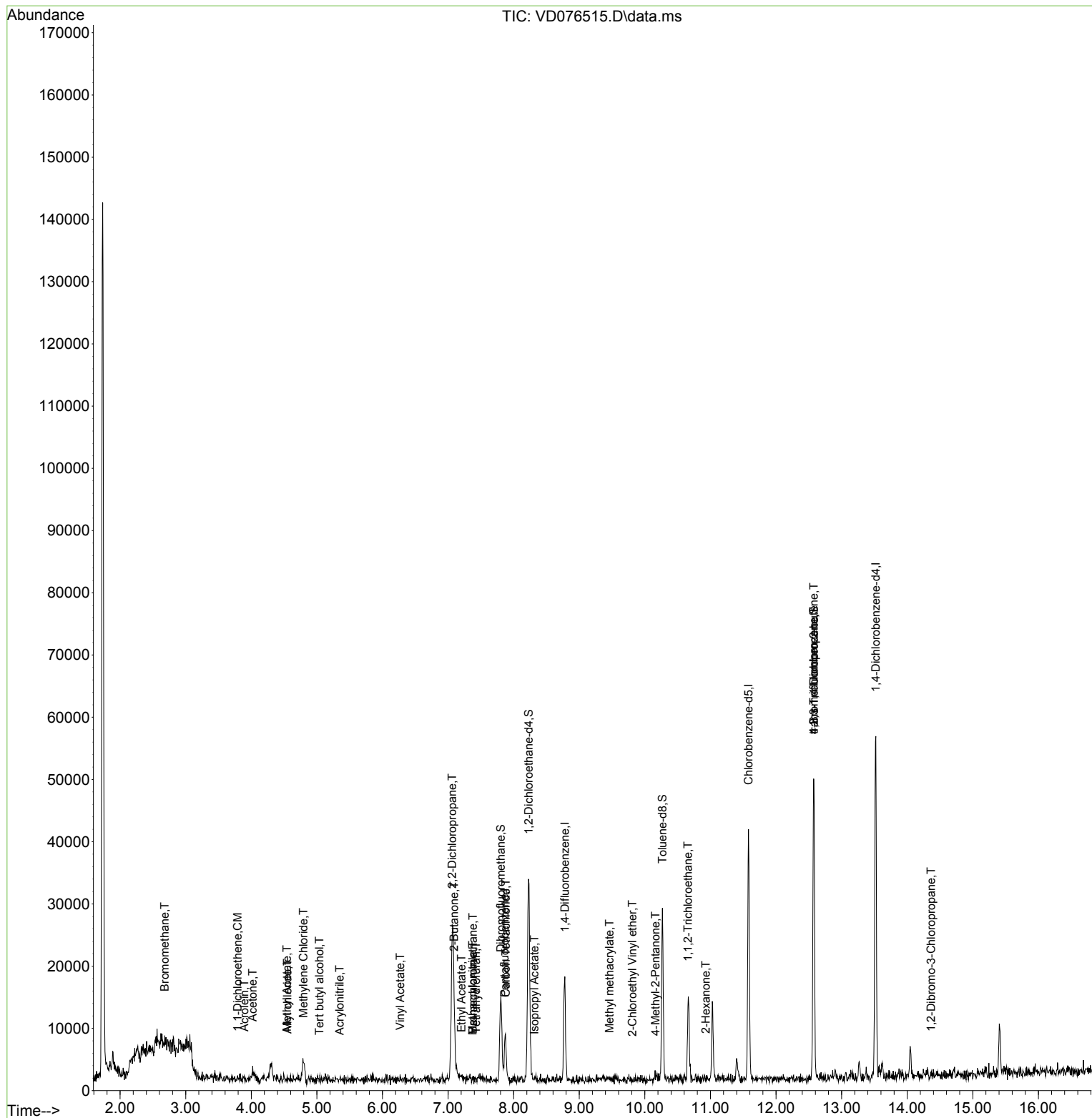
Internal Standards						
1) Pentafluorobenzene	7.863	168	6136	50.000	ug/l	#-0.01
34) 1,4-Difluorobenzene	8.781	114	13877	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	22469	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	14371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	24434	397.446	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 794.900%#			
35) Dibromofluoromethane	7.804	113	9554	115.892	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 231.780%#			
50) Toluene-d8	10.269	98	17890	57.221	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 114.440%			
62) 4-Bromofluorobenzene	12.575	95	11210	110.479	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 220.960%#			
Target Compounds						Qvalue
5) Bromomethane	2.681	94	94	1.337	ug/l #	15
11) Tert butyl alcohol	5.040	59	57	10.739	ug/l #	73
12) 1,1-Dichloroethene	3.793	96	79	1.407	ug/l #	1
13) Acrolein	3.893	56	55	9.620	ug/l #	15
14) Allyl chloride	4.552	41	120	1.169	ug/l #	57
15) Acrylonitrile	5.346	53	62	3.599	ug/l #	18
16) Acetone	4.022	43	1220	83.394	ug/l	94
18) Methyl Acetate	4.546	43	88	1.305	ug/l #	42
20) Methylene Chloride	4.793	84	1747	16.027	ug/l #	78
23) Vinyl Acetate	6.269	43	133	1.208	ug/l #	63
25) 2-Butanone	7.093	43	2699	119.282	ug/l #	74
26) 2,2-Dichloropropane	7.063	77	2154	20.151	ug/l #	49
28) Bromochloromethane	7.381	49	118	1.322	ug/l #	1
29) Tetrahydrofuran	7.428	42	68	4.676	ug/l #	23
31) Cyclohexane	7.887	56	102	Below Cal	#	8
37) Ethyl Acetate	7.204	43	90	1.345	ug/l #	62
38) Carbon Tetrachloride	7.881	117	348	3.373	ug/l #	11
41) Methacrylonitrile	7.375	41	114	3.018	ug/l #	23
43) Isopropyl Acetate	8.316	43	251	1.982	ug/l #	43
48) Methyl methacrylate	9.463	41	79	1.361	ug/l #	1
51) 4-Methyl-2-Pentanone	10.163	43	443	6.843	ug/l	96
55) 1,1,2-Trichloroethane	10.657	97	84	1.174	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.810	63	64	1.616	ug/l #	43
59) 2-Hexanone	10.928	43	61	1.355	ug/l #	16
76) 1,2,3-Trichloropropane	12.575	75	5994	42.025	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	5994	92.087	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.363	75	73	2.429	ug/l #	1

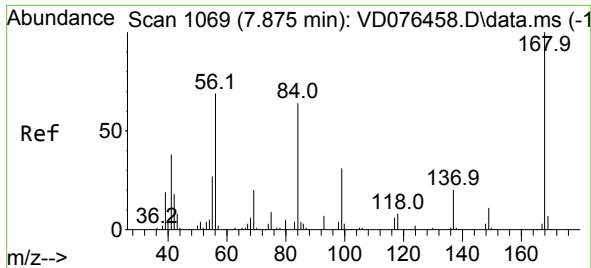
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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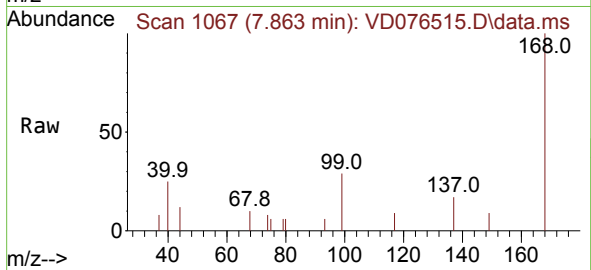
Quant Time: Jun 22 02:00:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061623S.M
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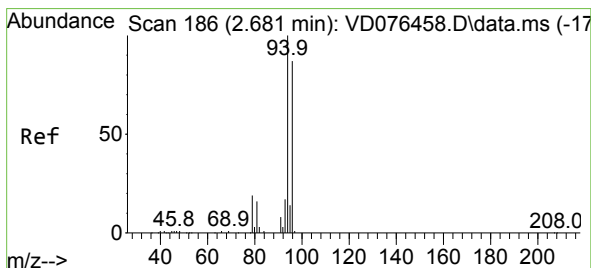
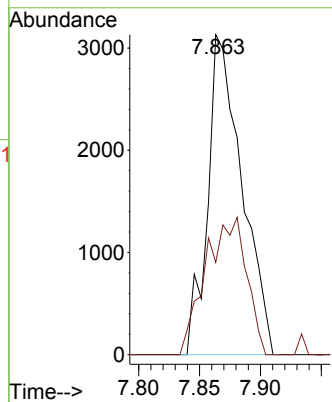
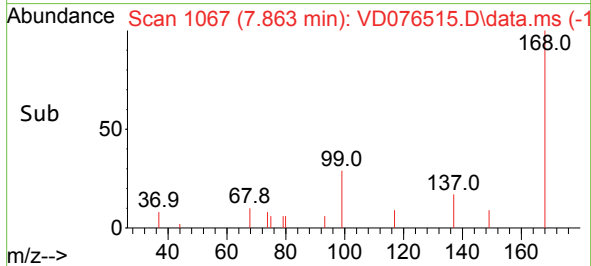


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.863 min Scan# 1067
Delta R.T. -0.012 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Instrument :
MSVOA_D
ClientSampleId :
TRIP-BLANK

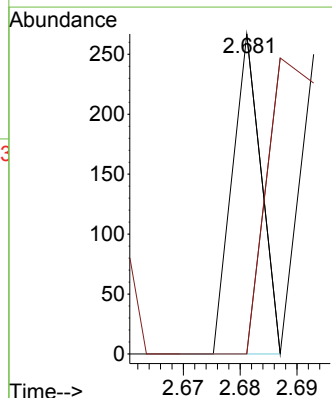
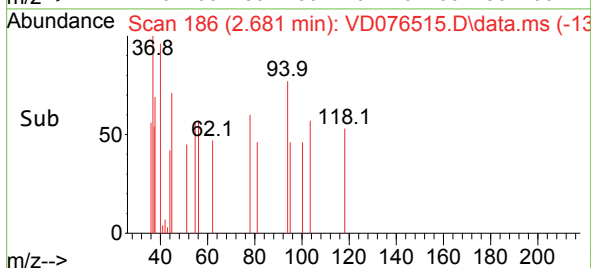
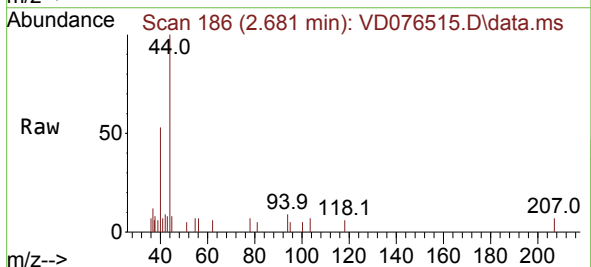


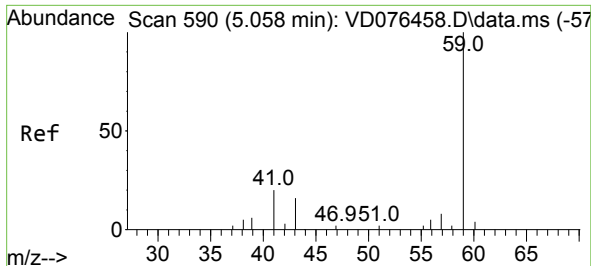
Tgt Ion:168 Resp: 6136
Ion Ratio Lower Upper
168 100
99 28.8 36.7 55.1#



#5
Bromomethane
Concen: 1.337 ug/l
RT: 2.681 min Scan# 186
Delta R.T. -0.000 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 94 Resp: 94
Ion Ratio Lower Upper
94 100
96 177.7 75.8 113.8#





#11

Tert butyl alcohol

Concen: 10.739 ug/l

RT: 5.040 min Scan# 51

Delta R.T. -0.018 min

Lab File: VD076515.D

Acq: 21 Jun 2023 16:21

Instrument :

MSVOA_D

ClientSampleId :

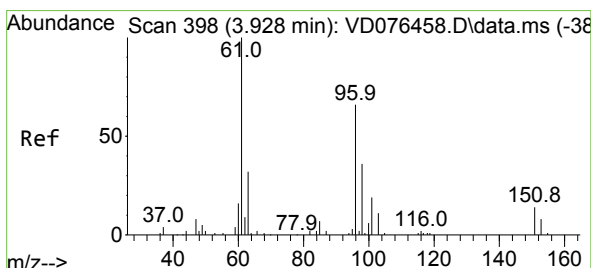
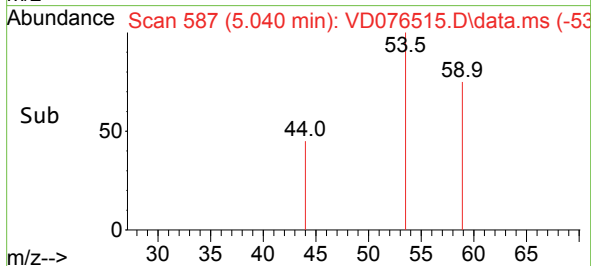
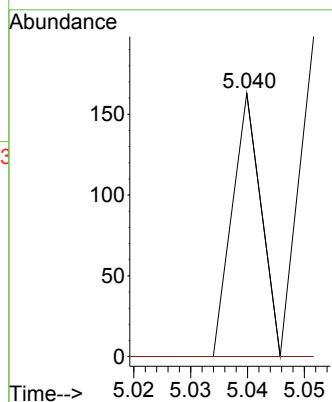
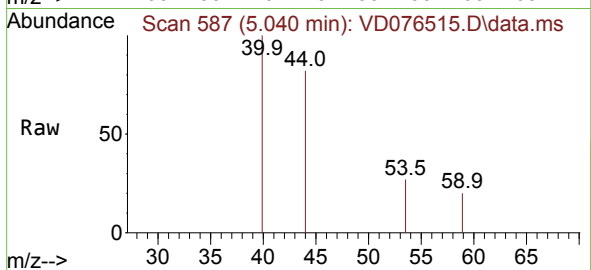
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Tgt Ion: 59 Resp: 57

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#12

1,1-Dichloroethene

Concen: 1.407 ug/l

RT: 3.793 min Scan# 375

Delta R.T. -0.135 min

Lab File: VD076515.D

Acq: 21 Jun 2023 16:21

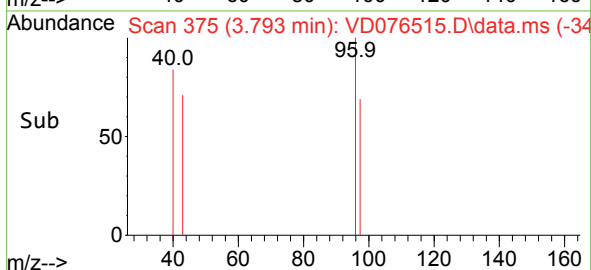
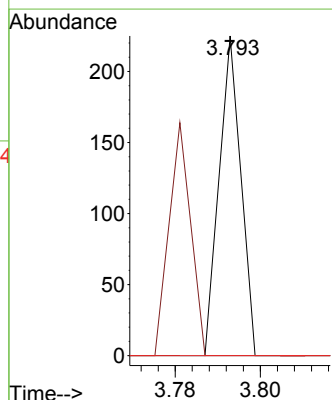
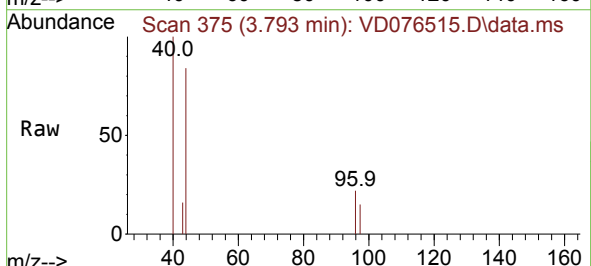
Tgt Ion: 96 Resp: 79

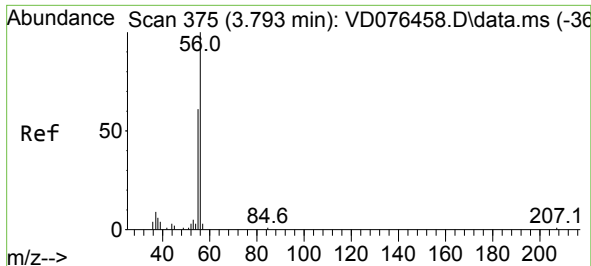
Ion Ratio Lower Upper

96 100

61 0.0 100.6 150.8#

98 0.0 50.2 75.2#

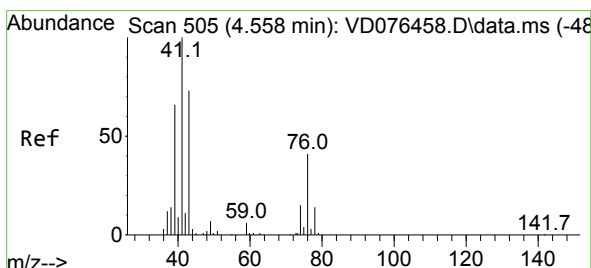
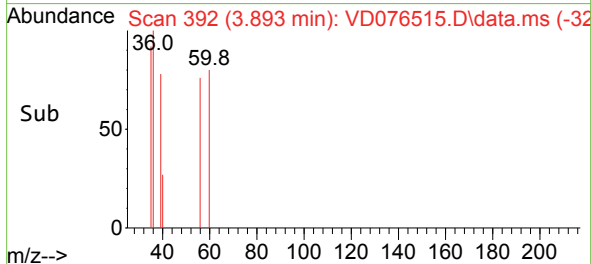
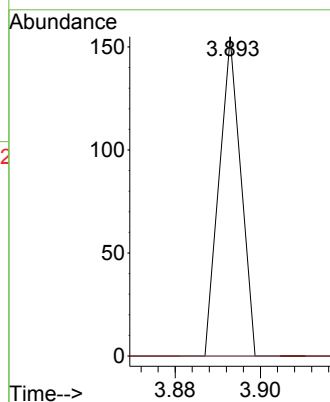
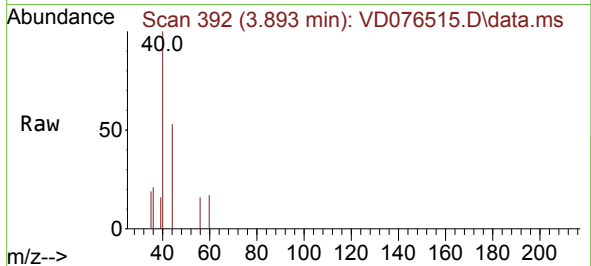




#13
Acrolein
Concen: 9.620 ug/l
RT: 3.893 min Scan# 392
Delta R.T. 0.100 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

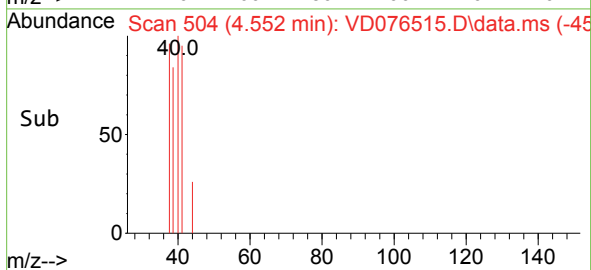
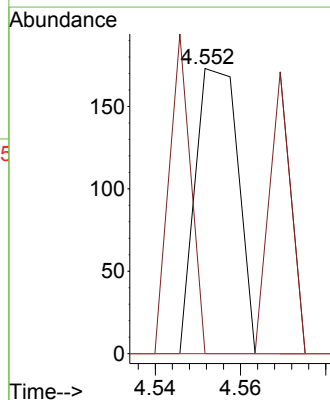
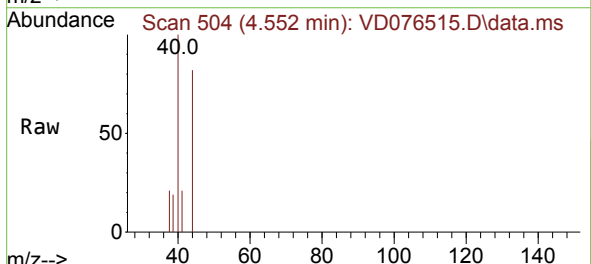
Instrument :
MSVOA_D
ClientSampleId :
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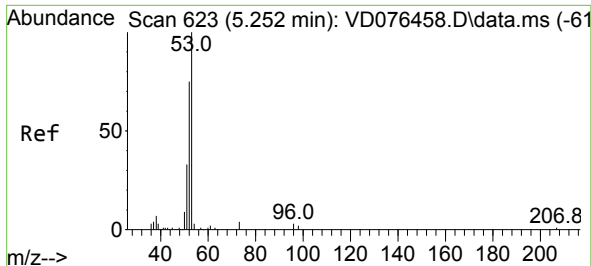
Tgt Ion: 56 Resp: 55
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



#14
Allyl chloride
Concen: 1.169 ug/l
RT: 4.552 min Scan# 504
Delta R.T. -0.006 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 41 Resp: 120
Ion Ratio Lower Upper
41 100
39 56.7 53.8 80.6
76 0.0 45.8 68.8#

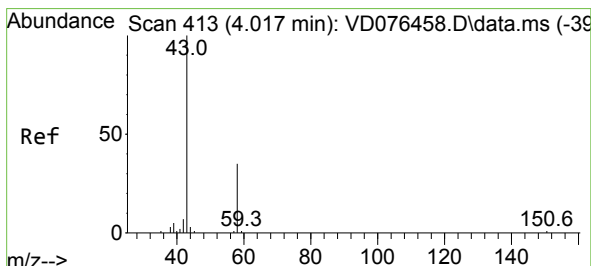
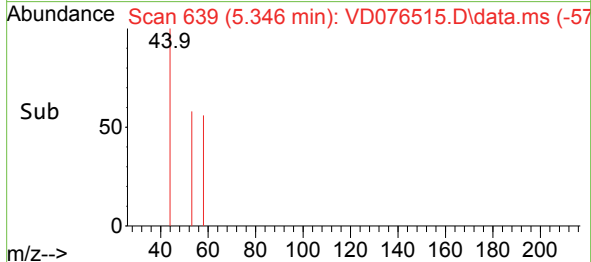
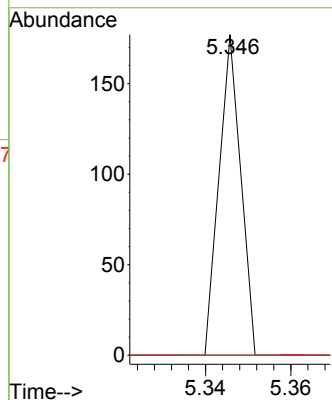
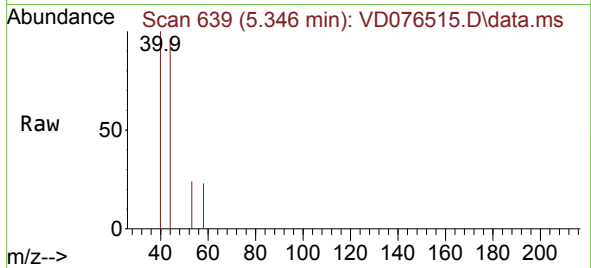




#15
Acrylonitrile
Concen: 3.599 ug/l
RT: 5.346 min Scan# 61
Delta R.T. 0.094 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

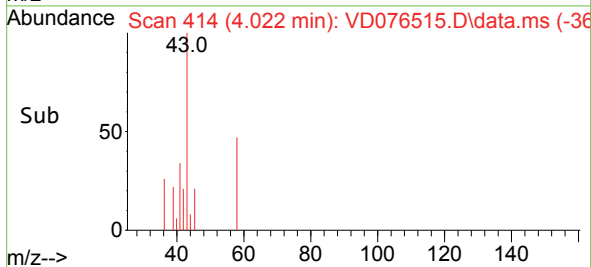
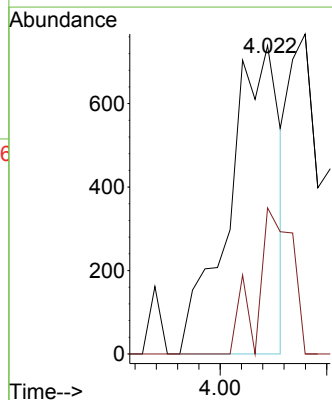
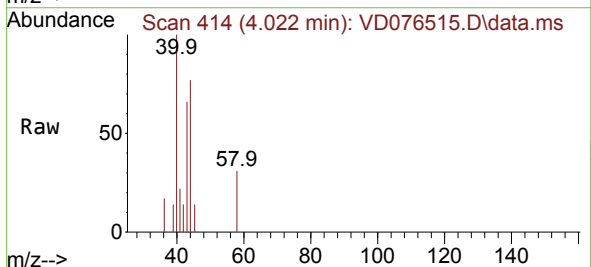
Instrument :
MSVOA_D
ClientSampleId :
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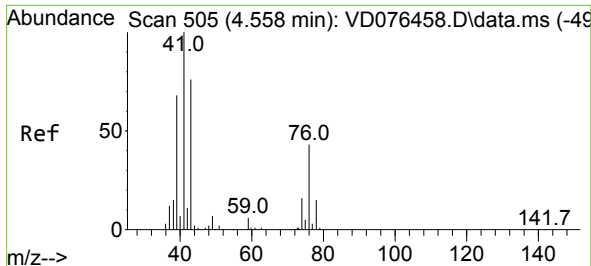
Tgt Ion: 53 Resp: 62
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 0.0 28.3 42.5#



#16
Acetone
Concen: 83.394 ug/l
RT: 4.022 min Scan# 414
Delta R.T. 0.006 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 43 Resp: 1220
Ion Ratio Lower Upper
43 100
58 47.4 34.7 52.1

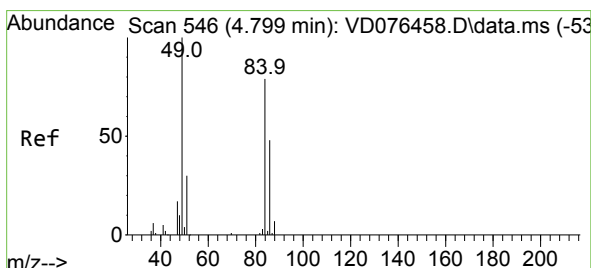
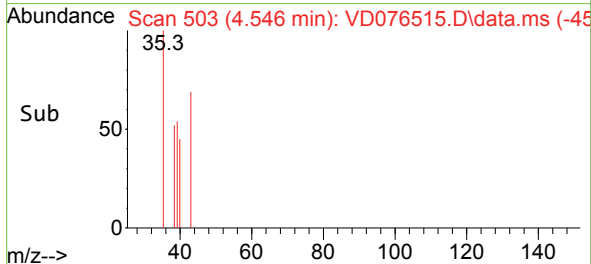
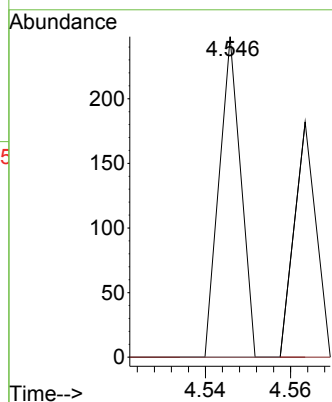
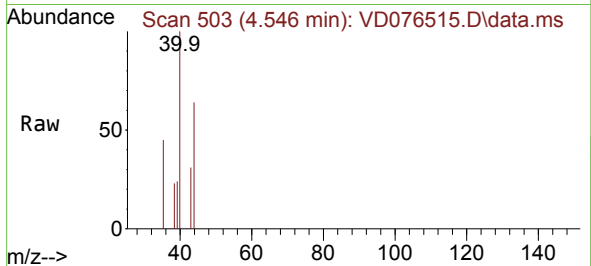




#18
Methyl Acetate
Concen: 1.305 ug/l
RT: 4.546 min Scan# 505
Delta R.T. -0.012 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

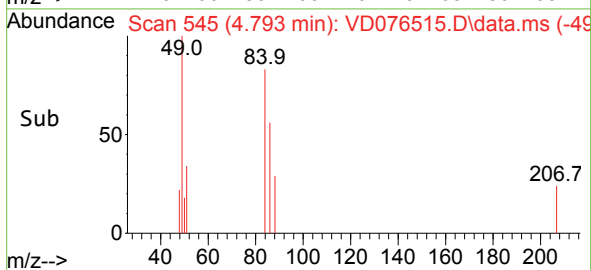
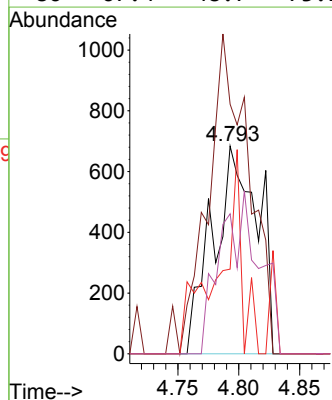
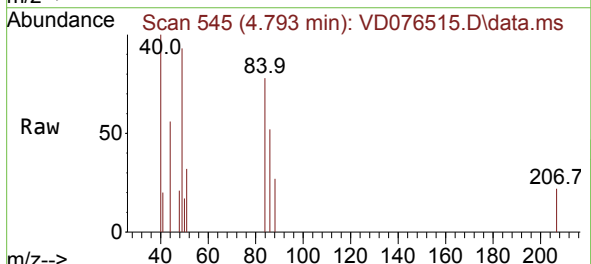
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MSVOA_D
ClientSampleId :
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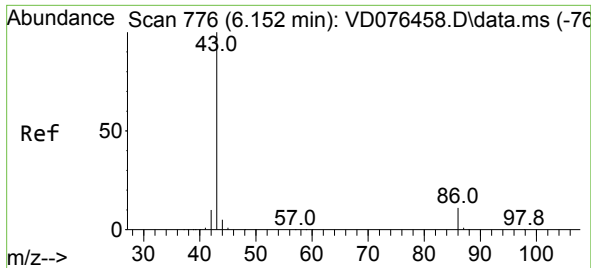
Tgt Ion: 43 Resp: 88
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: 16.027 ug/l
RT: 4.793 min Scan# 545
Delta R.T. -0.006 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 84 Resp: 1747
Ion Ratio Lower Upper
84 100
49 120.2 71.4 107.2#
51 40.8 24.5 36.7#
86 67.4 48.7 73.1

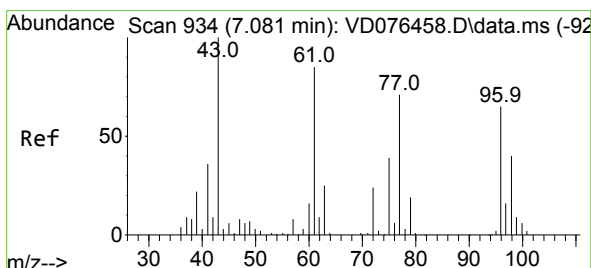
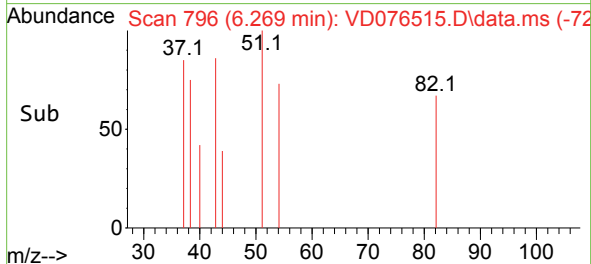
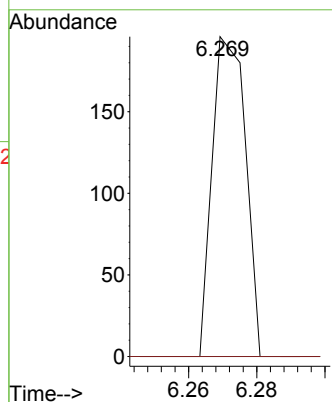
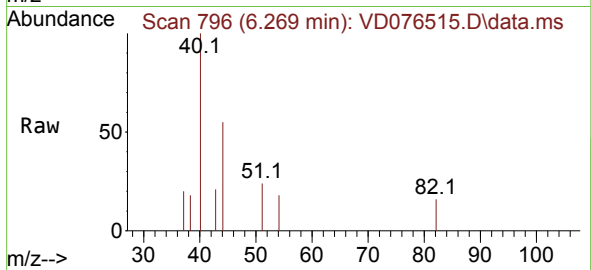




#23
 Vinyl Acetate
 Concen: 1.208 ug/l
 RT: 6.269 min Scan# 796
 Delta R.T. 0.117 min
 Lab File: VD076515.D
 Acq: 21 Jun 2023 16:21

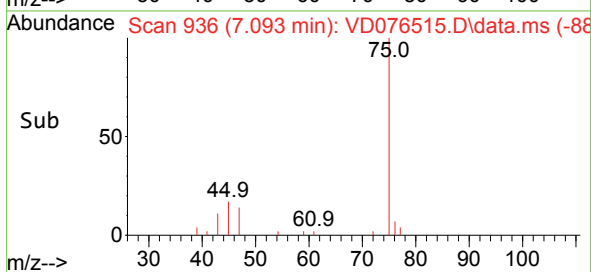
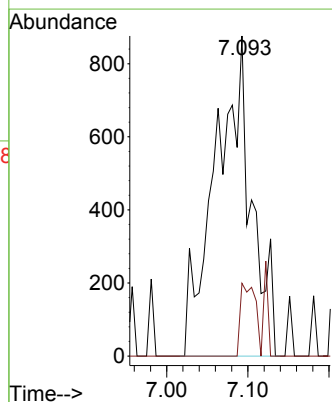
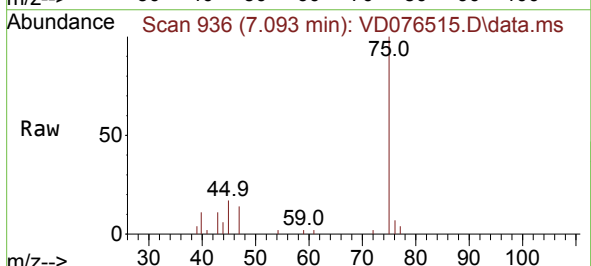
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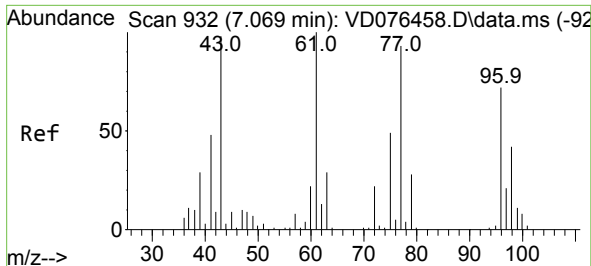
Tgt Ion: 43 Resp: 133
 Ion Ratio Lower Upper
 43 100
 86 0.0 12.5 18.7#



#25
 2-Butanone
 Concen: 119.282 ug/l
 RT: 7.093 min Scan# 936
 Delta R.T. 0.012 min
 Lab File: VD076515.D
 Acq: 21 Jun 2023 16:21

Tgt Ion: 43 Resp: 2699
 Ion Ratio Lower Upper
 43 100
 72 22.7 30.7 46.1#

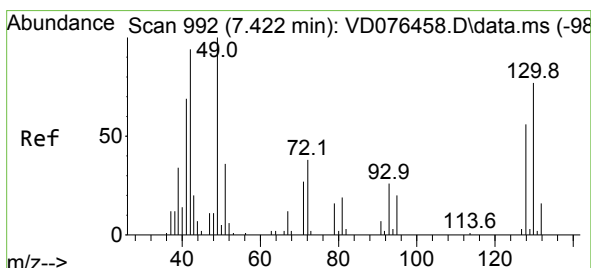
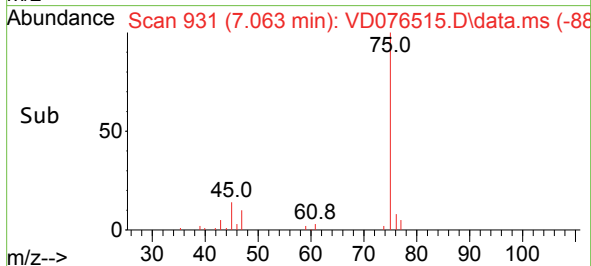
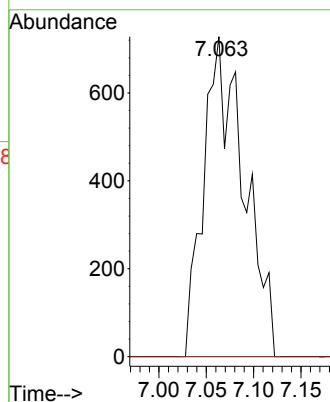
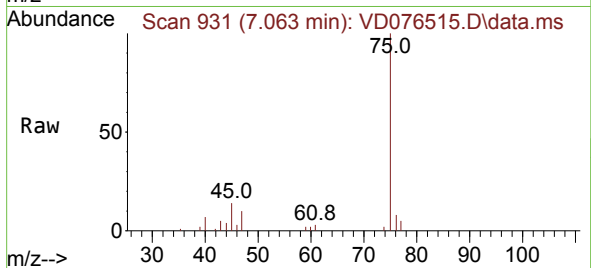




#26
2,2-Dichloropropane
Concen: 20.151 ug/l
RT: 7.063 min Scan# 91
Delta R.T. -0.006 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

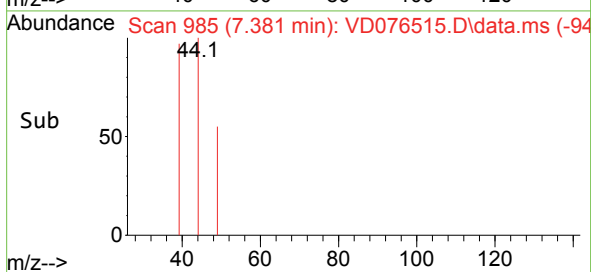
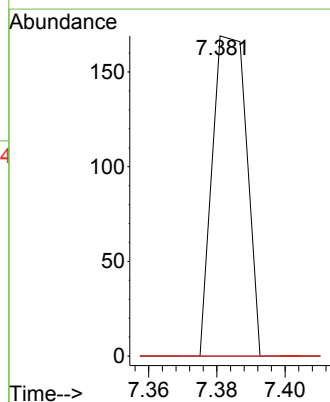
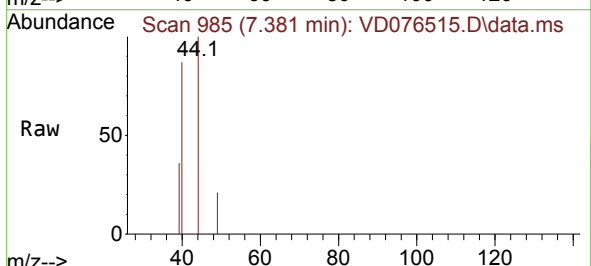
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ClientSampleId :
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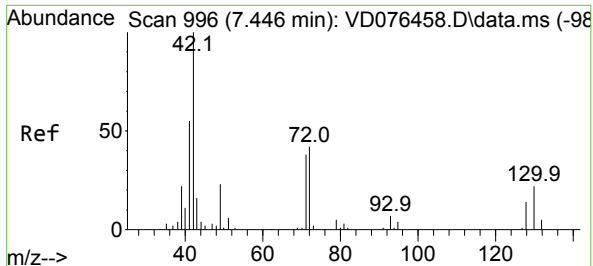
Tgt Ion: 77 Resp: 2154
Ion Ratio Lower Upper
77 100
97 0.0 13.2 39.6#



#28
Bromochloromethane
Concen: 1.322 ug/l
RT: 7.381 min Scan# 985
Delta R.T. -0.041 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 49 Resp: 118
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 0.0 83.2 124.8#





#29

Tetrahydrofuran

Concen: 4.676 ug/l

RT: 7.428 min Scan# 993

Delta R.T. -0.018 min

Lab File: VD076515.D

Acq: 21 Jun 2023 16:21

Instrument :

MSVOA_D

ClientSampleId :

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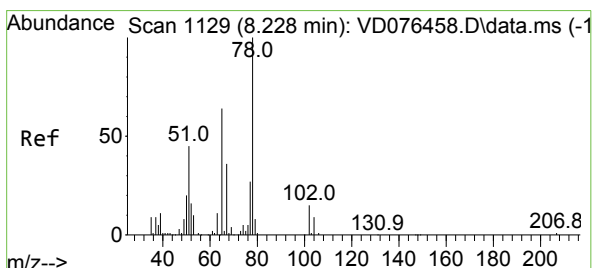
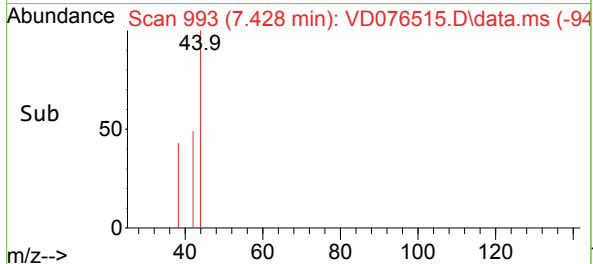
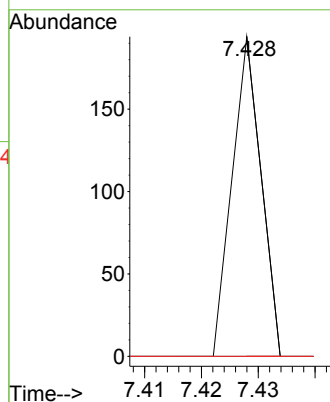
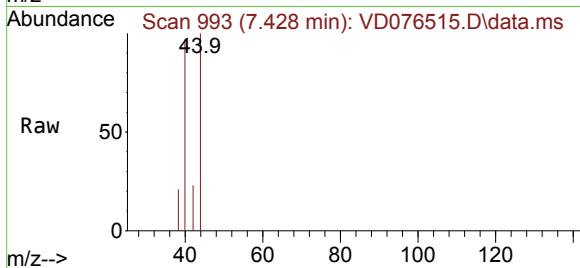
Tgt Ion: 42 Resp: 68

Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#



#33

1,2-Dichloroethane-d4

Concen: 397.446 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076515.D

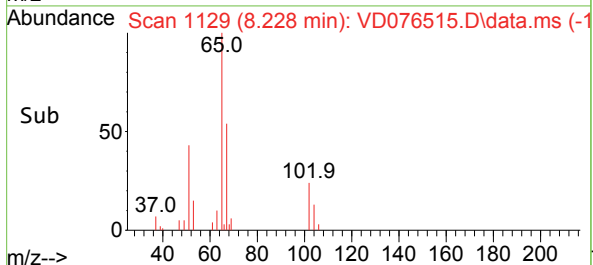
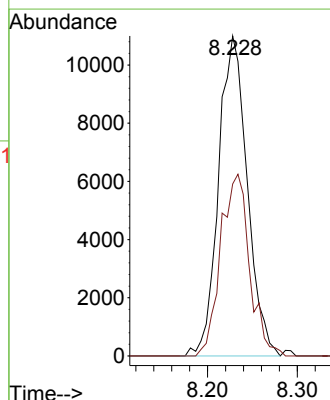
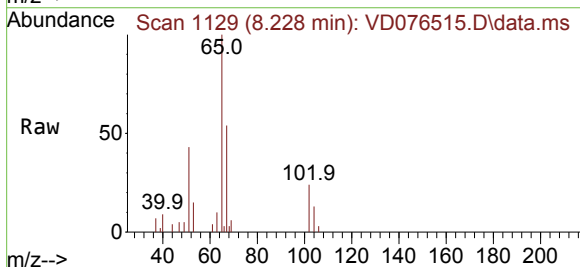
Acq: 21 Jun 2023 16:21

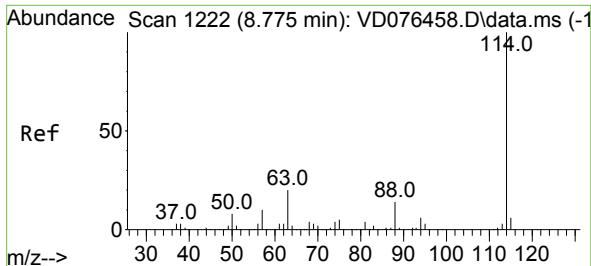
Tgt Ion: 65 Resp: 24434

Ion Ratio Lower Upper

65 100

67 57.2 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD076515.D

Acq: 21 Jun 2023 16:21

Instrument :

MSVOA_D

ClientSampleId :

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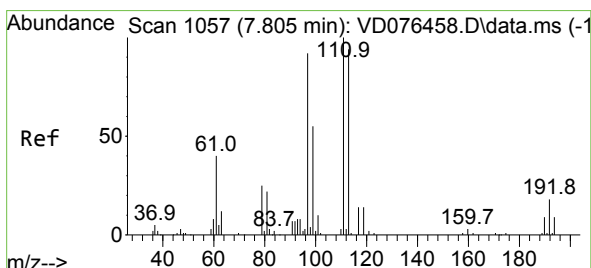
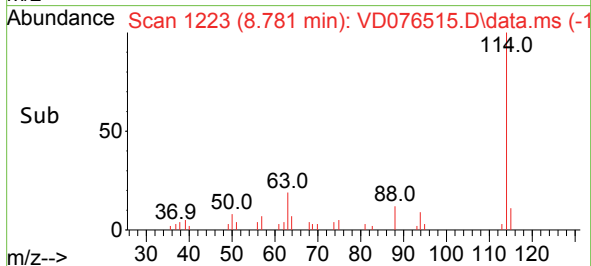
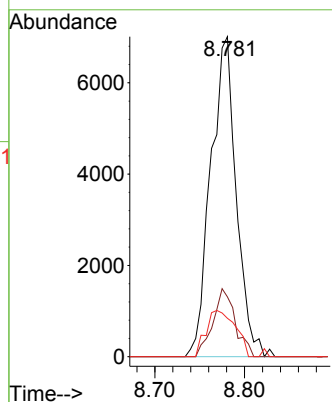
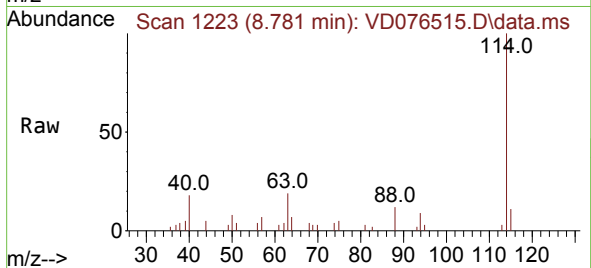
Tgt Ion:114 Resp: 13877

Ion Ratio Lower Upper

114 100

63 18.7 0.0 33.4

88 12.0 0.0 26.2



#35

Dibromofluoromethane

Concen: 115.892 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VD076515.D

Acq: 21 Jun 2023 16:21

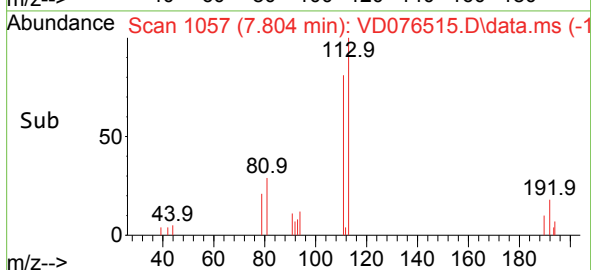
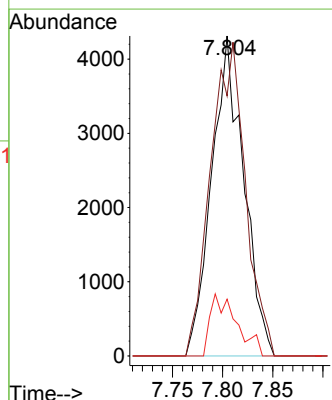
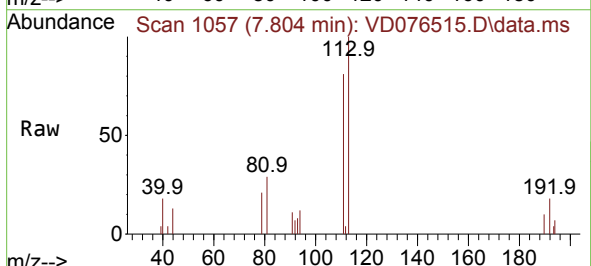
Tgt Ion:113 Resp: 9554

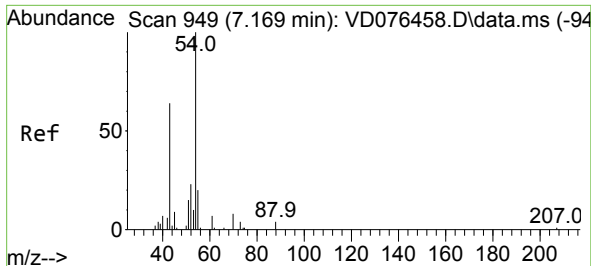
Ion Ratio Lower Upper

113 100

111 107.1 84.7 127.1

192 16.0 16.8 25.2#





#37

Ethyl Acetate

Concen: 1.345 ug/l

RT: 7.204 min Scan# 91

Delta R.T. 0.035 min

Lab File: VD076515.D

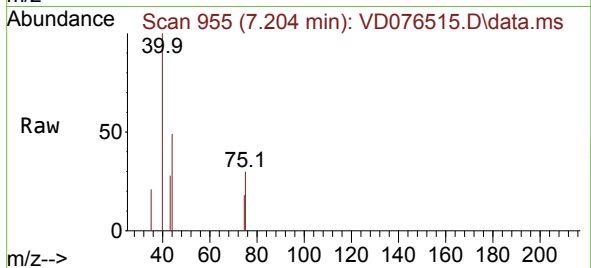
Acq: 21 Jun 2023 16:21

Instrument :

MSVOA_D

ClientSampleId :

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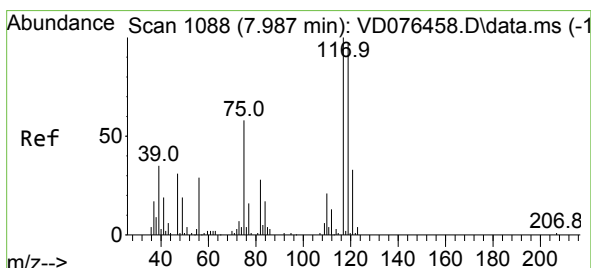
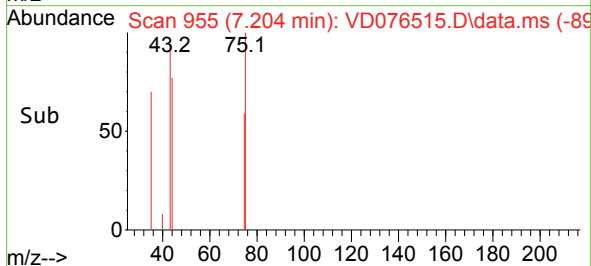
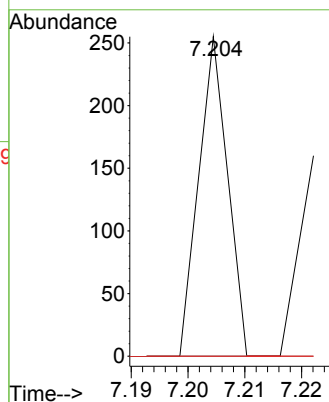
Tgt Ion: 43 Resp: 90

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

70 0.0 10.0 15.0#



#38

Carbon Tetrachloride

Concen: 3.373 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.106 min

Lab File: VD076515.D

Acq: 21 Jun 2023 16:21

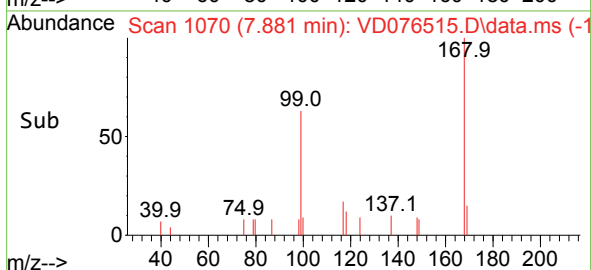
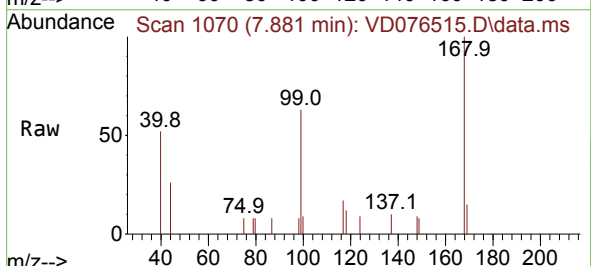
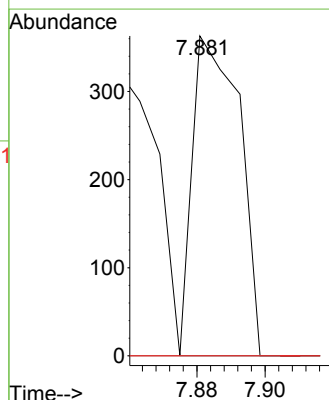
Tgt Ion: 117 Resp: 348

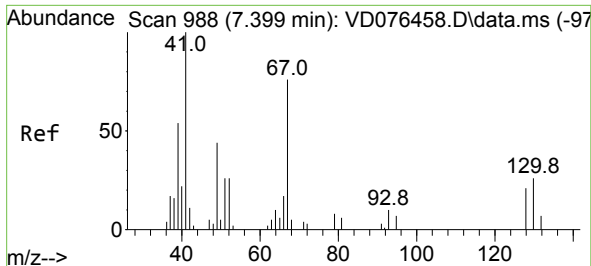
Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#

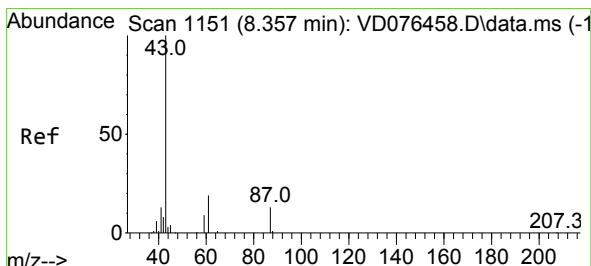
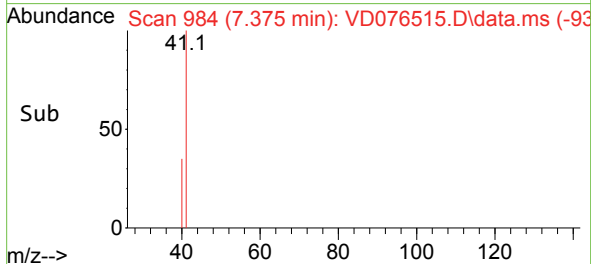
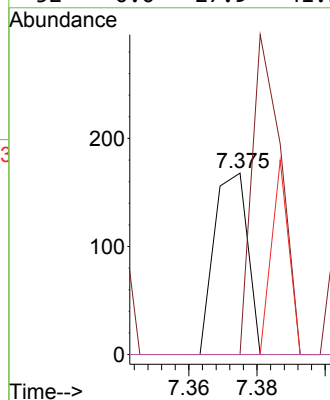
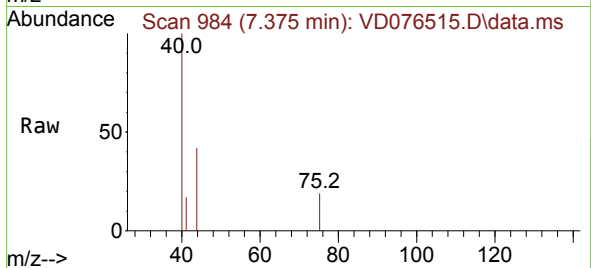




#41
Methacrylonitrile
Concen: 3.018 ug/l
RT: 7.375 min Scan# 914
Delta R.T. -0.024 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

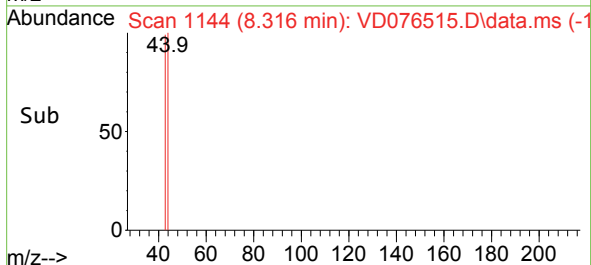
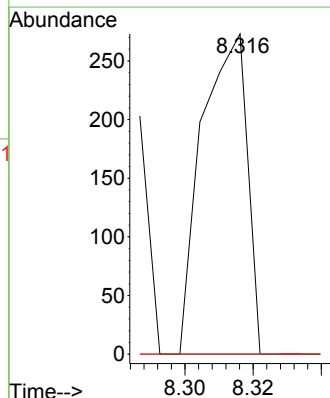
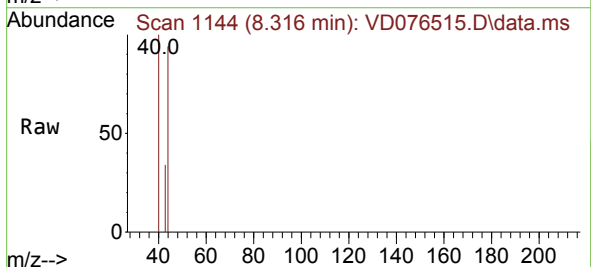
Instrument :
MSVOA_D
ClientSampleId :
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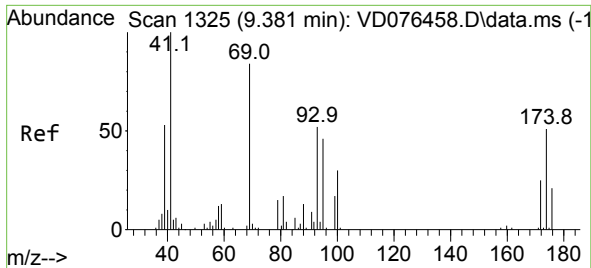
Tgt Ion: 41	Resp: 114
Ion Ratio	Lower Upper
41 100	
39 151.8	34.0 51.0#
67 55.3	77.0 115.4#
52 0.0	27.9 41.9#



#43
Isopropyl Acetate
Concen: 1.982 ug/l
RT: 8.316 min Scan# 1144
Delta R.T. -0.041 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 43	Resp: 251
Ion Ratio	Lower Upper
43 100	
61 0.0	31.4 47.0#
87 0.0	14.9 22.3#

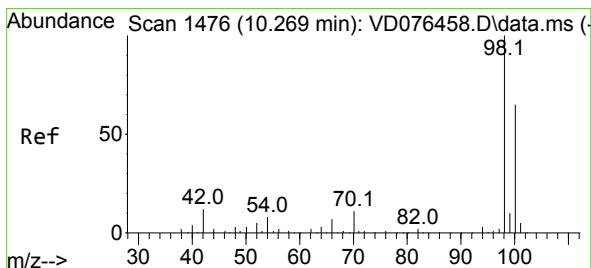
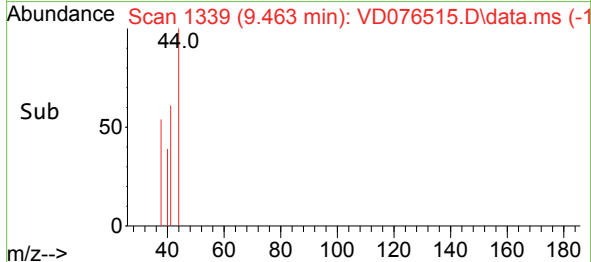
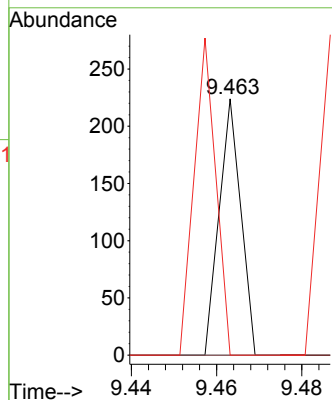
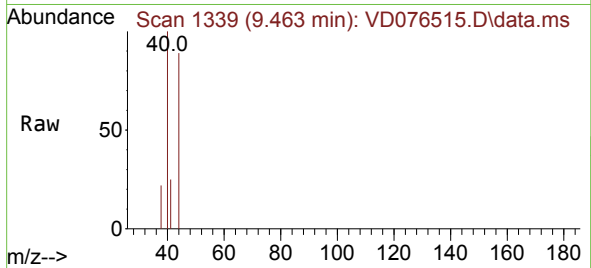




#48
Methyl methacrylate
Concen: 1.361 ug/l
RT: 9.463 min Scan# 11
Delta R.T. 0.082 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

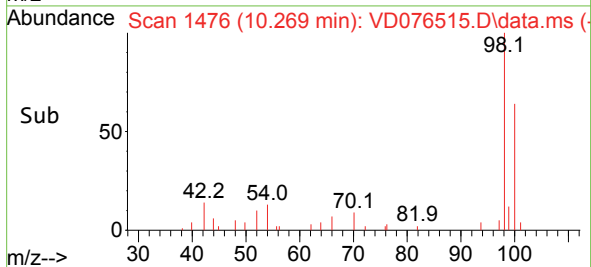
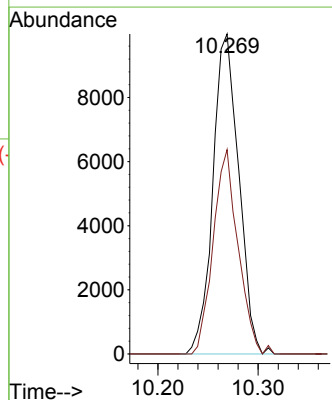
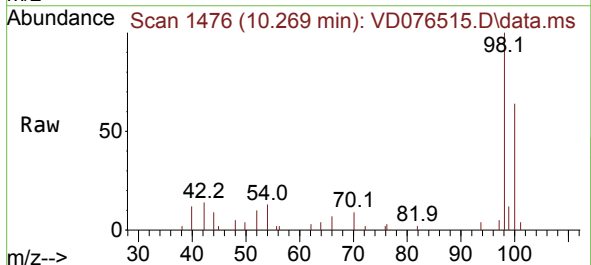
Instrument :
MSVOA_D
ClientSampleId :
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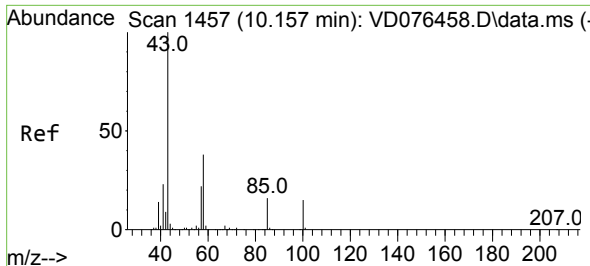
Tgt Ion: 41 Resp: 79
Ion Ratio Lower Upper
41 100
69 0.0 102.2 153.2#
39 124.1 41.4 62.2#



#50
Toluene-d8
Concen: 57.221 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 98 Resp: 17890
Ion Ratio Lower Upper
98 100
100 61.6 50.3 75.5

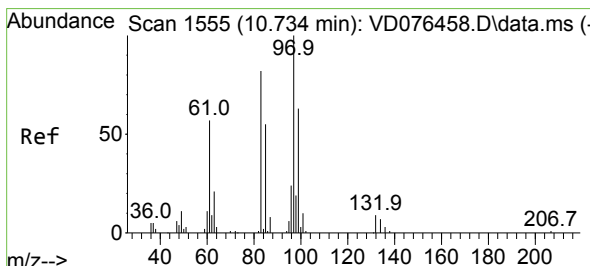
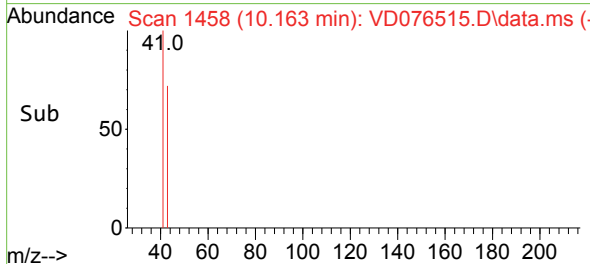
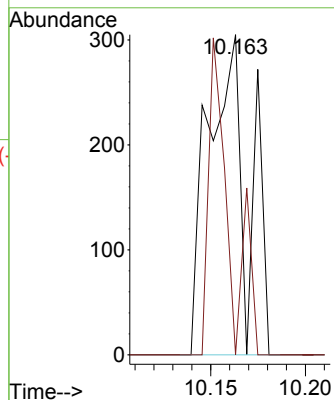
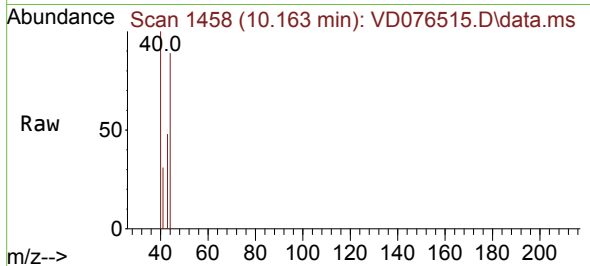




#51
4-Methyl-2-Pentanone
Concen: 6.843 ug/l
RT: 10.163 min Scan# 1457
Delta R.T. 0.006 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

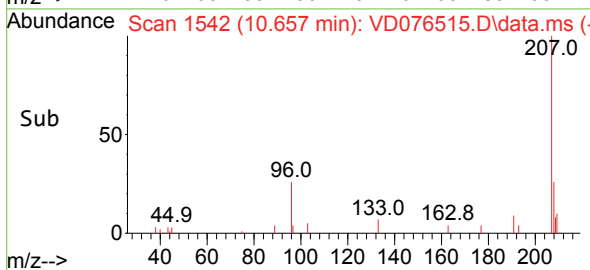
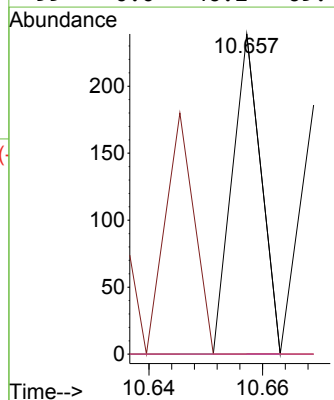
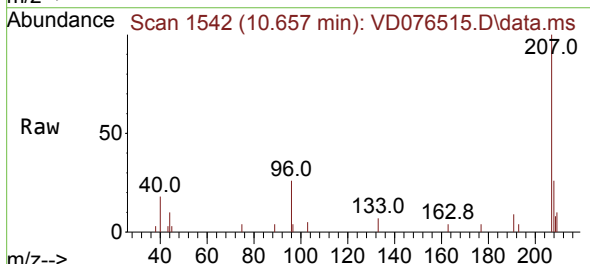
Instrument :
MSVOA_D
ClientSampleId :
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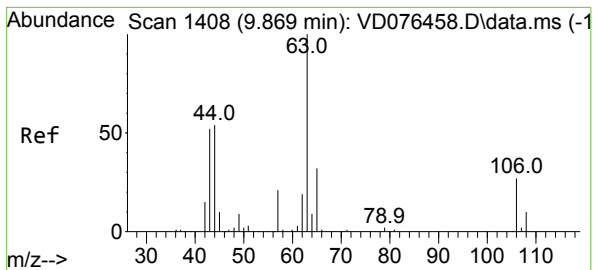
Tgt Ion: 43 Resp: 443
Ion Ratio Lower Upper
43 100
58 51.0 38.9 58.3



#55
1,1,2-Trichloroethane
Concen: 1.174 ug/l
RT: 10.657 min Scan# 1542
Delta R.T. -0.077 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 97 Resp: 84
Ion Ratio Lower Upper
97 100
83 0.0 65.8 98.6#
85 0.0 45.7 68.5#
99 0.0 46.2 69.4#

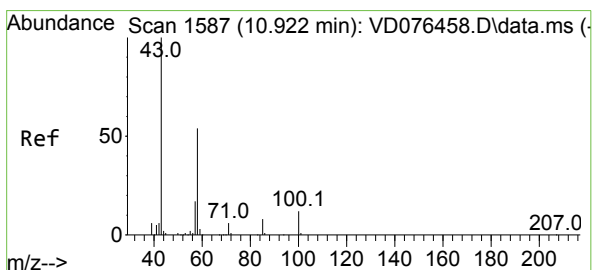
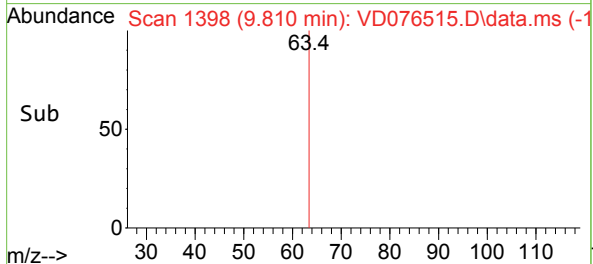
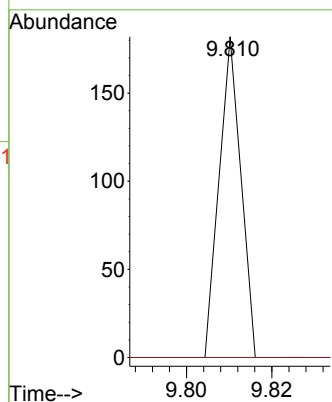
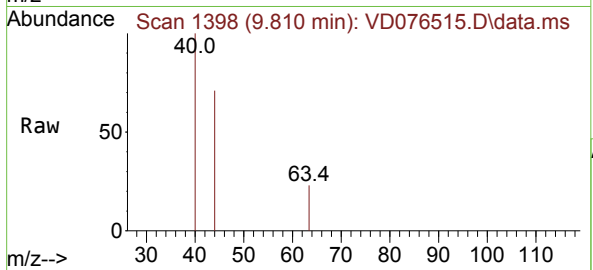




#58
2-Chloroethyl Vinyl ether
Concen: 1.616 ug/l
RT: 9.810 min Scan# 11
Delta R.T. -0.059 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

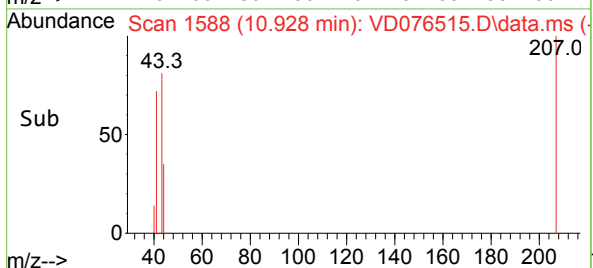
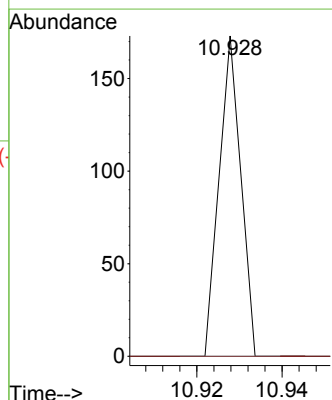
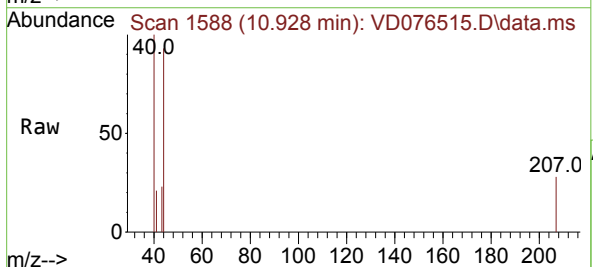
Instrument :
MSVOA_D
ClientSampleId :
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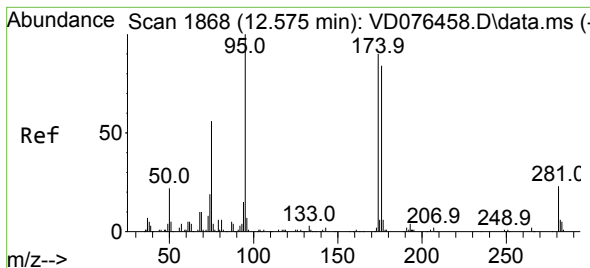
Tgt Ion: 63 Resp: 64
Ion Ratio Lower Upper
63 100
106 0.0 25.3 37.9#



#59
2-Hexanone
Concen: 1.355 ug/l
RT: 10.928 min Scan# 1588
Delta R.T. 0.006 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#

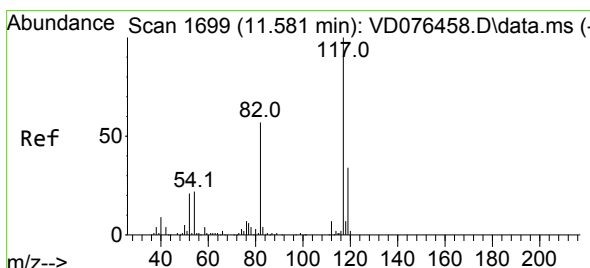
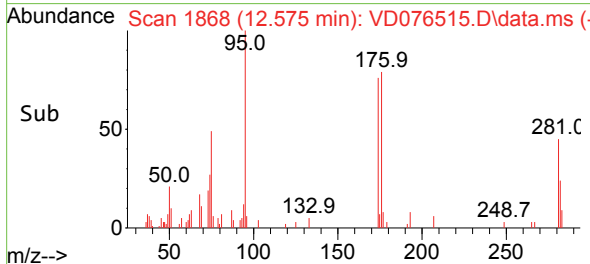
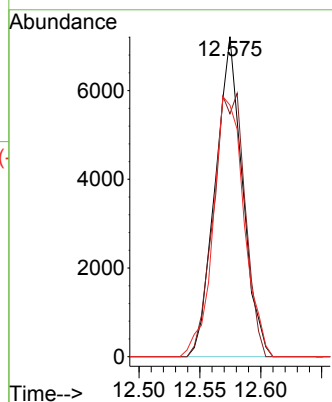
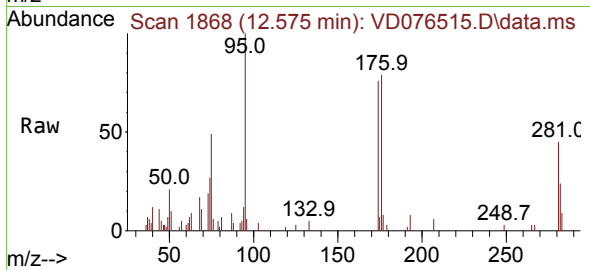




#62
4-Bromofluorobenzene
Concen: 110.479 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

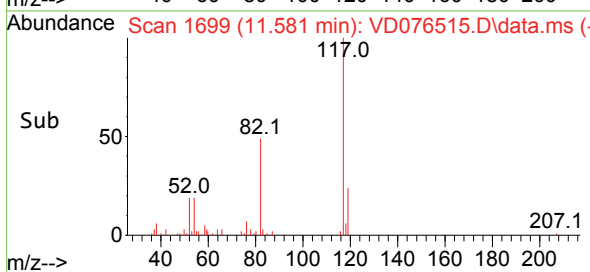
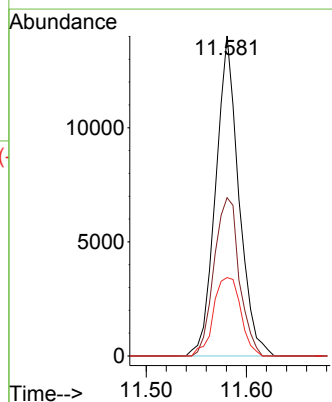
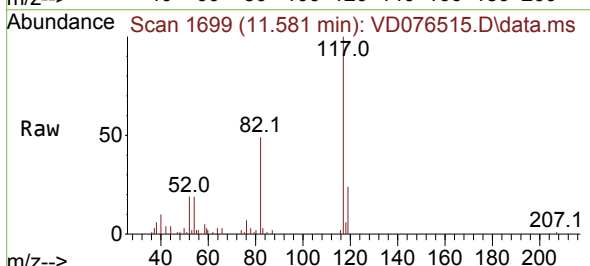
Instrument :
MSVOA_D
ClientSampleId :
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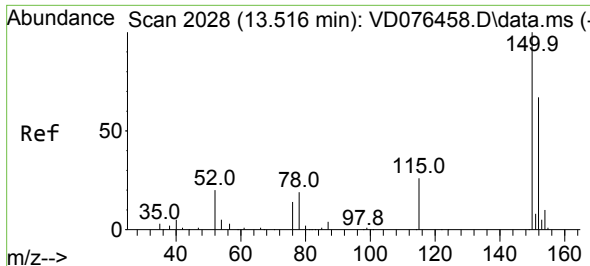
Tgt Ion:	95	Resp:	11210
Ion	Ratio	Lower	Upper
95	100		
174	95.5	0.0	201.8
176	92.1	0.0	191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD076515.D
Acq: 21 Jun 2023 16:21

Tgt Ion:	117	Resp:	22469
Ion	Ratio	Lower	Upper
117	100		
82	49.5	38.3	57.5
119	24.5	25.0	37.4

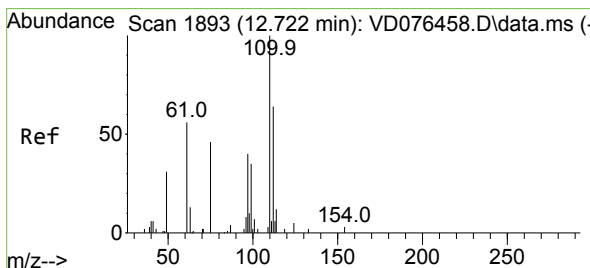
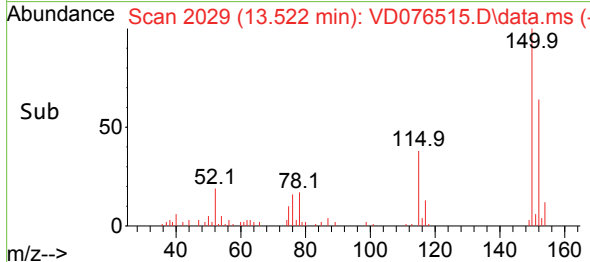
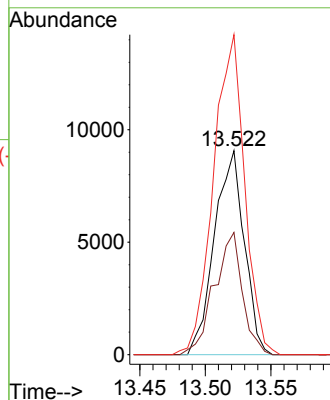
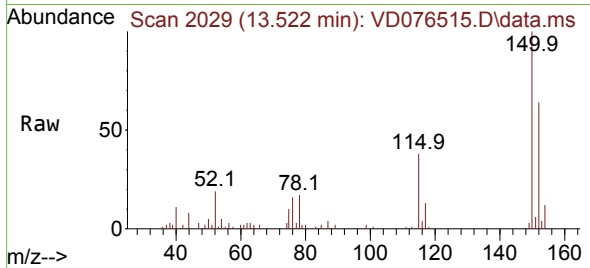




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.522 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VD076515.D
 Acq: 21 Jun 2023 16:21

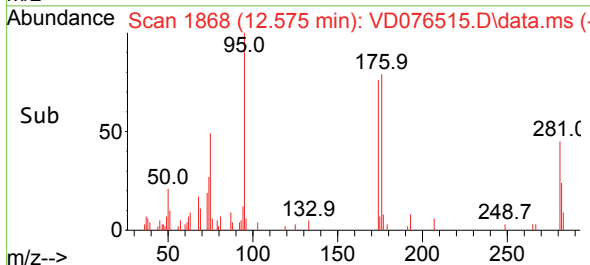
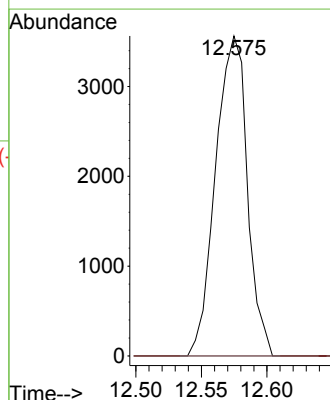
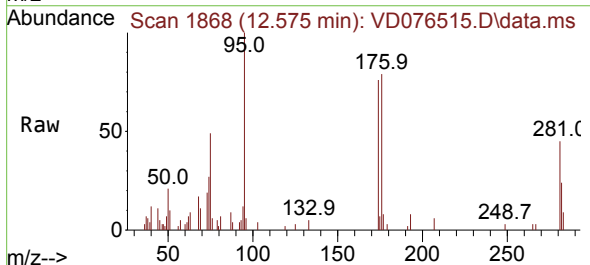
Instrument :
 MSVOA_D
 ClientSampleId :
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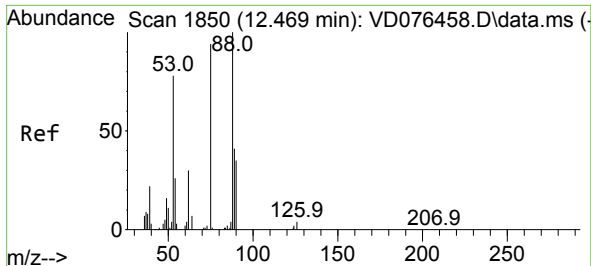
Tgt Ion:152 Resp: 14371
 Ion Ratio Lower Upper
 152 100
 115 56.3 27.1 81.3
 150 163.6 0.0 353.6



#76
 1,2,3-Trichloropropane
 Concen: 42.025 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. -0.147 min
 Lab File: VD076515.D
 Acq: 21 Jun 2023 16:21

Tgt Ion: 75 Resp: 5994
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

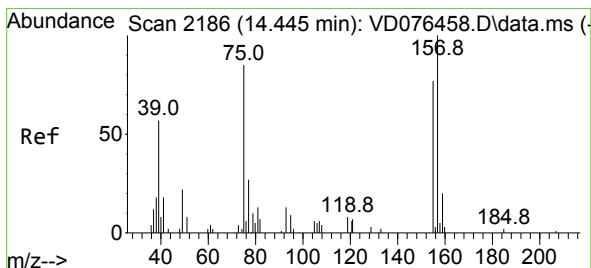
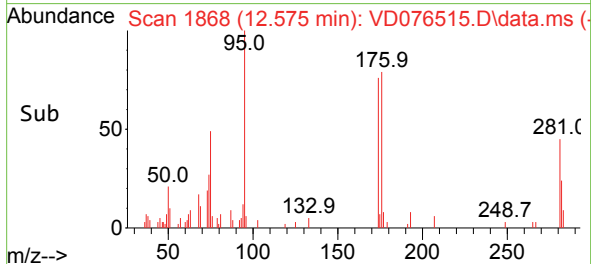
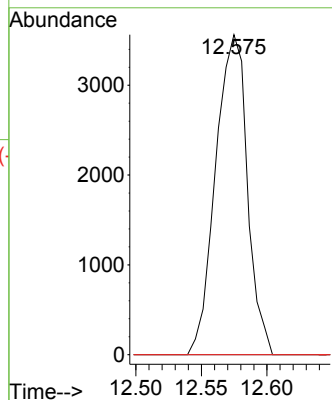
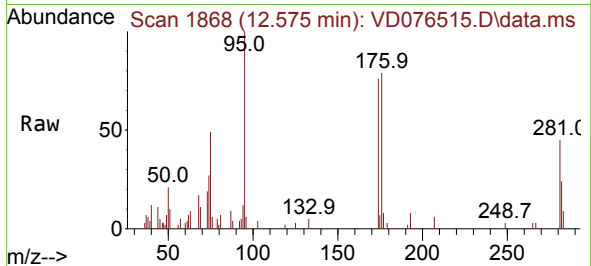




#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.087 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. 0.106 min
 Lab File: VD076515.D
 Acq: 21 Jun 2023 16:21

Instrument :
 MSVOA_D
 ClientSampleId :
 TRIP-BLANK

Tgt Ion: 75 Resp: 5994
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.0 94.4#
 89 0.0 37.9 56.9#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.429 ug/l
 RT: 14.363 min Scan# 2172
 Delta R.T. -0.082 min
 Lab File: VD076515.D
 Acq: 21 Jun 2023 16:21

Tgt Ion: 75 Resp: 73
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.9 143.8#
 157 0.0 59.9 179.7#

